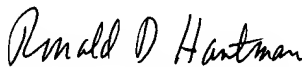


Lyon discloses a designing of a packed bed system to improve heat transfer between an exothermic reaction and an endothermic reaction like steam reforming. An example, in figure 4 and Col. 11 line 20 - Col. 12 line 37, mentions emulsions as a potential fuel source for his packed bed system. Lyon says that his system can be used to produce hydrogen from an emulsion. The hydrogen is then used for a conventional fuel cell system. He does not say that an emulsion can be used for a fuel cell.

Neither patent gives any indication of how an emulsion would affect an on-board vehicle fuel cell system. Lyon does not address overall system operation, and Fuglevand does not address non-stationary applications, nor does it address any system operation for an on-board fuel cell system.

Applicants believe that the claims now present in this application to be patentable and that this application is in condition for allowance, and such favorable action is respectfully requested. If any questions or issues remain, the resolution of which the Examiner feels would be advanced by a conference, he is invited to contact applicants' attorney at the telephone number noted below.

Respectfully submitted,



Ronald D. Hantman  
Registration No. 27,796  
Telephone No. (908) 730-3645

ExxonMobil Research and Engineering Company  
(formerly Exxon Research and Engineering Company)  
P. O. Box 900  
Annandale, New Jersey 08801-0900

RDH:jmw  
9/29/00